Caydance Hodle

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Professional Summary: I am currently pursuing a degree in mechanical engineering at North Carolina State University. My academic and professional pursuits thus far have sparked a growing interest in the applications of thermodynamics and fluid mechanics. My experiences have given me the opportunity to learn about commonly used equipment in industry, preventative maintenance planning, production management, and design processes.

Education

Rutherfordton-Spindale High School
Graduation Year 2023 (GPA 4.29)
Honors/Scholarships: ROPE Award (Volunteer Service Scholarship)

North Carolina State University
Expected Graduation Year 2028
Program: Mechanical Engineering BS (GPA 3.224)
Relevant Coursework: Statics; Dynamics; Solid Mechanics I & II; Material Science; Fluid Mechanics; Thermodynamics I & II

Experience

Nutrien Aurora (Jan. 2026-July 2026) *Engineering Co-op*

- Located, tagged, and tested steam traps in sulfuric acid plants; put together repair lists and a preventative maintenance plan
- Verified correctness of steam P&IDs
- Updated and field verified equipment specifications in site inspection-tracking software
- Assisted in internal equipment inspections during plant turnaround
- Collected information for pressure vessels from drawings/documentation for inspection request forms

Lear Duncan (May 2024-Aug. 2024, May 2025-July 2025) *Engineering Intern*

- Provided the lines with parts needed to build seats
- Used AS400 and BOM alerts to track seats and find parts to fulfill orders
- Prepared seats for shipping

Other Employment

- **Rumbling Bald Resort (May 2025-August 2025)** *Wellness Center Representative* **(June 2023-Aug. 2023)** *Breakfast Chef*
- **Ingles (July 2022-March 2023)** *Cashier*
- **Billy Ann's (April 2021-Nov. 2021)** *Dishwasher/Cook*

Projects/Involvement

ASME EPHVC Design Team (Aug. 2025-Present)
Worked with steering sub team to redesign a brake mount in solidworks; currently assisting chassis with a new design for the Y-frame and roll cage

FEDD Animatronic Project (2024)
Designed a 3D-printed animatronic scorpion with a small team of students; worked primarily on structural design and assembly

3D-Printed Sculpture (2024)
Modeled an ice cream truck from a movie in SolidWorks and 3D printed it

Skills

- Microsoft Excel
- Matlab
- Solidworks
- AS400
- Customer Service
- Drawing/Painting
- Problem Solving
- Teamwork
- Phone Etiquette
- Reading P&IDs
- Steam Systems
- Confined Space Entry
- Preventative Maintenance Planning